Claims

- 1. A metal phthalocyanine compound or the salt thereof having both acylamino group(s) and carboxyethylamino group(s) as substituents on the phthalocyanine structure.
- 2. The phthalocyanine compound or the salt thereof according to Claim 1 represented by Formula (1) as shown below:

$$\begin{bmatrix}
N & N & N \\
N & N & N
\end{bmatrix}$$

$$\begin{pmatrix}
N & (1)
\end{pmatrix}$$

(Wherein, each R independently shows a carboxyethyl group, an acyl group, or a hydrogen atom, provided that at least one of them is an acyl group and at least one of them is a carboxyethyl group; and M shows a metal atom).

- 3. The phthalocyanine compound or the salt thereof according to Claim 2, wherein M in Formula (1) is nickel, copper, zinc, aluminum, iron or cobalt.
- 4. The phthalocyanine compound or the salt thereof according to Claim 2 or 3, wherein R in Formula (1) is one kind

of acyl group selected from the group consisting of an optionally substituted, saturated or unsaturated, branched, chain or cyclic alkyl carbonyl group; an optionally substituted, saturated or unsaturated, branched, chain or cyclic alkyl sulfonyl group; an optionally substituted benzoyl group; and an optionally substituted phenyl sulfonyl group.

- 5. The phthalocyanine compound or the salt thereof according to Claim 1 or 2, wherein said acyl group is an aliphatic or aromatic acyl group of C1-C6 which may have a carboxyl group as a substituent.
- 6. The phthalocyanine compound or the salt thereof according to any one of Claims 2 to 5, wherein said metal atom is copper.
- 7. The salt of a phthalocyanine compound according to any one of Claims 2 to 6, wherein a solubility thereof to water is 2% by weight or more.
- 8. A phthalocyanine compound or the salt thereof obtained by reacting metal aminophthalocyanines with an acylating agent and a carboxyethylating agent.
- 9. The phthalocyanine compound or the salt thereof according to Claim 8, wherein said acylating agent is an acetic acid, a trimellitic acid, or the reactive derivatives thereof.
- 10. The phthalocyanine compound or the salt thereof according to Claim 8, wherein said carboxyethylating agent is an acrylic acid.

- 11. The phthalocyanine compound or the salt thereof according to any one of Claims 8 to 10, wherein said acylating agent and carboxyethylating agent are reacted in such amounts that amino groups of aminophthalocyanines are substituted by acyl groups in 1-60 mol% and by carboxyethyl groups in 40-99 mol%.
- 12. A water-based ink composition comprising the phthalocyanine compound or the salt thereof according to any one of Claims 1 to 11.
- 13. The water-based ink composition according to Claim
 12, wherein said salt of the phthalocyanine compound is an
 alkanolamine salt, an alkali metal salt, or an ammonium salt
 of the phthalocyanine compound.
- 14. The water-based ink composition according to Claim
 12 or 13, wherein said salt of the phthalocyanine compound is
 an ammonium salt of the phthalocyanine compound.
- 15. The water-based ink composition according to any one of Claims 12 to 14, comprising water and water-soluble organic solvent(s).
- 16. The water-based ink composition according to any one of Claims 12 to 15, wherein content of inorganic salt(s) in the water-based ink composition is 1% by weight or less.
- 17. The water-based ink composition according to any one of Claims 12 to 16, wherein the water-based ink composition is an ink for ink-jet recording.

- 18. A method for ink-jet recording by jetting ink droplets on a recording material in response to recording signals, characterized by using the water-based ink composition according to any one of Claims 12 to 17 as ink.
- 19. The method for ink-jet recording according to Claim
 18, wherein said recording material is an information
 transmission sheet.
- 20. A tank containing the water-based ink composition according to any one of Claims 12 to 17.
- 21. An ink-jet printer set with the tank according to Claim 20.
- 22. A colored product comprising the phthalocyanine compound or the salt thereof according to any one of Claims 1 to 11.
- 23. A method for manufacturing a phthalocyanine compound or the salt thereof by acylating and carboxyethylating aminophthalocyanines.
- 24. A black metal phthalocyanine colorant which is obtained by acylating and carboxyethylating aminophthalocyanines.
- 25. The black metal phthalocyanine colorant according to Claim 24, wherein said compound having the phthalocyanine structure is a phthalocyanine compound or the salt thereof having an acylamino group and a carboxyethylamino group as substituents on the phthalocyanine structure.